## LISTING OF THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application:

1. (Currently Amended) An arrangement for storing electrical energy comprising:

an electric charge source between a first terminal and a second terminal,

a plurality of electrical storage modules connected in series between the first terminal and the second terminal, each electric electrical storage module of the plurality of electrical storage modules having a respective nominal module voltage;

a DC-to-DC converter coupled to the electric charge source and to each of the electrical storage modules, the DC-to-DC converter being operable to receive incoming power from the electric charge source and to deliver supply a respective voltage fraction of the DC-system voltage to each of the electrical storage module modules.

wherein the DC-to-DC converter is <u>further</u> operable to control <del>each of</del> the <u>respective</u> voltage <u>fraction</u> fractions to vary <del>each</del> the respective voltage fraction over a time <u>period</u> within a voltage interval around the respective nominal module voltage of each <u>electrical storage</u> module <u>such that during the time period the respective voltage</u> fraction supplied to each electrical storage module is set to be higher than the respective nominal module voltage of each electrical storage module.

- 2. (Currently Amended) [[An]] <u>The</u> arrangement according to claim 1, wherein the voltage interval represents a voltage variation of less than 25% of <del>any of</del> the nominal module <u>voltages</u>.
- 3. (Currently Amended) [[An]] The arrangement according to claim 1, wherein the DC-to-DC converter is operable to control the respective voltage <u>fraction</u> fractions over the electrical storage modules such that an average time interval during which the voltage fraction exceeds the nominal module voltage is substantially equal with respect to all the modules.
- 4. (Currently Amended) [[An]] <u>The</u> arrangement according to claim 1, wherein the DC-to-DC converter is operable to control the respective voltage <u>fraction</u>

fractions over the electrical storage modules such that an average <u>voltage</u> fraction of the DC-system voltage being distributed to each module is substantially equally large for all the modules.

5. (Currently Amended) [[An]] The arrangement according to claim 1, wherein at least two of the electrical storage modules are included in a common battery unit, the unit having a separate set of access points for each module, and each of the access points is coupled to the DC-to-DC converter.

## 6. (Cancelled)

- 7. (Currently Amended) [[An]] <u>The</u> arrangement according to claim 1, wherein the electrical storage modules are operable to provide power to an electrical system of a vehicle via the first and second terminals.
- 8. (Currently Amended) [[An]] <u>The</u> arrangement according to claim 1, wherein the electric charge source is an electric generator.
- 9. (Currently Amended) A motor vehicle[[,]] comprising an arrangement for storing electrical energy according to claim 1.
- 10. (Currently Amended) A method of charging a plurality of electrical storage modules comprising the steps of connecting the modules connected in series between a first terminal and a second terminal[[;]], the method comprising the steps of:

  receiving a DC-system voltage between the first terminal and the second

receiving a DC-system voltage between the first terminal and the second terminal[[,]];

DC-to-DC converting the DC-system voltage into a respective voltage fraction per electrical storage module;

delivering its supplying the respective voltage fraction to each of the electrical storage module modules;; and

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controlling each of the respective voltage fraction fractions to vary over a time period within a voltage interval (V<sub>D</sub>) around a respective nominal module voltage of each electrical storage module such that the respective voltage fraction supplied to each electrical storage module within the time period is set to be higher than the respective nominal module voltage of each electrical storage module.

- 11. (Currently Amended) [[A]] <u>The</u> method according to claim 10, wherein the voltage interval represents a voltage variation of less than 25% of <del>any of</del> the nominal module <u>voltage</u> voltages.
- 12. (Currently Amended) [[A]] The method according to claim 10, further comprising controlling the respective voltage fraction fractions over the electrical storage modules such that an average time interval during which the respective voltage fraction exceeds the respective nominal module voltage is substantially equal with respect to all the modules.
- 13. (Currently Amended) [[A]] The method according to claim 10, further comprising controlling the respective voltage <u>fraction</u> fractions over the electrical storage modules such that an average <u>voltage</u> fraction of the DC-system voltage being distributed to each module is substantially equally large for all the modules.
- 14. (Currently Amended) [[A]] <u>The</u> method according to claim 10, wherein there are two electrical storage modules.

## 15. - 16. (Canceled)

17. (Currently Amended) [[An]] <u>The</u> arrangement according to claim 1, wherein the DC-to-DC converter is operable to control the <u>respective</u> voltage <u>fraction</u> fractions such that when one of the <u>respective</u> voltage <u>fraction</u> fractions is varied to be above the respective <u>nominal</u> module <u>voltage</u>, another of the <u>respective</u> voltage <u>fraction</u> fractions is varied to be below the respective <u>normal</u> <u>nominal</u> module voltage for another respective module.

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- 18. (Currently Amended) [[A]] <u>The</u> method according to claim 10, wherein each of the voltage <u>fraction</u> fractions is controlled such that when one of the <u>respective</u> voltage <u>fraction</u> is varied to be above the respective <u>nominal</u> module <u>voltage</u>, another of the <u>respective</u> voltage <u>fraction</u> fractions is varied to be below the respective <u>nominal</u> module voltage for another respective module.
- 19. (New) An electrical energy storage system comprising:
  an electric charge source between a first terminal and a second terminal,
  a plurality of electrical storage modules connected in series between the first
  terminal and the second terminal, each electric electrical storage module of the
  plurality of electrical storage modules having a respective nominal module voltage;
  and

a DC-to-DC converter coupled to the electric charge source and to each of the electrical storage modules, the DC-to-DC converter being operable:

to receive incoming power from the electric charge source;

to supply a respective voltage fraction of the DC-system voltage to each electrical storage module;

to vary each respective voltage fraction over a period of time within a voltage interval around the respective nominal module voltage of each electrical storage module such that within the period of time the respective voltage fraction supplied to each electrical storage module is set to be higher than the respective nominal module voltage of each electrical storage module;

to control the respective voltage fraction over the electrical storage modules such that an average time interval during which the respective voltage fraction exceeds the <u>respective</u> nominal module voltage is substantially equal for all the electrical storage modules; and

to control the respective voltage fractions fraction over the electrical storage modules such that an average voltage fraction of the DC-system voltage being supplied to each electrical storage module is substantially equal in magnitude for all the electrical storage modules.

20. (New) The system of claim 19, wherein the DC-to-DC converter is further operable to control the respective voltage fraction such that when the respective voltage fraction is varied to be above the respective nominal module voltage, another

respective voltage fraction is varied to be below the respective nominal module voltage for another respective module.

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